

Technical Bulletin

Proxitane

Hydrogen Peroxide and Peroxyacetic Acid Mixture

Product Description:

A water clear, colourless liquid comprising an equilibrium mixture of hydrogen peroxide, peroxyacetic acid, water and acetic acid.

Application:

Proxitane is an excellent food grade sanitiser and also has uses as laundry bleach. Each application may require a specific dosage rate and like all oxidising biocides, soil loadings can affect required application rate. Proxitane is biocidal at between 100 and 200 mg/L as Peroxy acetic (Peracetic) acid levels. Testing strips to determine in use concentration of Peracetic acid are available from Castle Chemicals. For more information on dosage rates for various application, refer to Castle, or the Solvay Interlox Data information sheet.

As Proxitane[®] does not contain surfactants it is ideal for use in 'clean in place' systems as part of a no water rinse regimen when systems can be flushed with finished product (to drain) before normal production resumes."

Dairies & dairy farms

"When used in dairy farms, after the use of Proxitane[®] surfaces must be drained and thoroughly rinsed with water prior to the next milking."

No rinsing

Proxitane[®] is an approved sanitising solution which in certain circumstances allows for use of Proxitane[®] on food contact surfaces without rinsing as long as drainage is available. Using Proxitane[®] reduces cleaning/sanitisation time and water consumption leading to lower effluent discharge costs.

HAZARDOUS PROPERTIES OF PROXITANE

Proxitane solutions in contact with eyes can cause severe and permanent corneal damage. Vapour from Proxitane can irritate and inflame the mucous membranes of the nose and throat. Skin contact with concentrated Proxitane for prolonged periods of time can result in thermal and/or chemical burns.

An Exposure Standard for Proxitane has not been established, but that for hydrogen peroxide is 1.4 mg/m³ air and that for acetic acid is 25 mg/m³ air.

Proxitane is incompatible with strong acids, alkalis, reducing agents, oxidising agents, rust, metals and their compounds, resins, promoters, accelerators and combustible materials. Although Proxitane by itself is not combustible, decomposition of concentrated Proxitane generates both heat and an oxygen-rich environment which together can promote combustion of organic materials.

Avoid contact with eyes and skin. When working with Proxitane always wear eye protection and protective clothes and gloves. Ensure adequate ventilation in areas where Proxitane has ready access to the workplace atmosphere. Do not eat, drink or smoke in areas where this material is used.

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Not combustible. Use large quantities of fine water spray from a safe distance, to cool and extinguish fires involving this product.

Technical Data:

Peroxyacetic Acid Content:	5% w/w
Hydrogen Peroxide Content:	min. 25% w/w
Acidity as Acetic Acid:	ca. 7.5% w/w
Density at 20°C:	ca. 1.13 g/cm ³
Freezing Point:	below -30°C
Miscibility at 23°C:	
Miscible in all properties with:	water
Thermal Stability:	
Critical Temperature (SADT):	ca. 60°C
Recommended Storage Temperature:	-20°C to 35°C
Maintenance of activity at 20°C:	ca. 12 months

Application:

With regard to the use of this product as a cleaner and / or sanitiser that may have incidental contact with food:

- 1) This product has been approved by AQIS for use in Export Meat facilities as a Category 6 Sanitiser.
- 2) The raw materials / ingredients of this product are permitted as processing aids as listed under clause 12 of the Food Standard Code 1.3.3 (Food Standards Australia New Zealand FSANZ) or
- 3) Are Generally Regarded As Safe (GRAS) according to the US Food and Drug Administration (FDA) or are recognised in the US Code of Federal Regulations (CFR) Title 21 part 178 as indirect food additives.

When used in accordance with the directions described in this product technical bulletin, this product complies with these recognised food safety parameters.

SHELF LIFE: As a quality assured manufacturer, Castle Chemicals has a stringent Quality assurance programme. As part of this regime, the label on this product shows a batch number and date of manufacture. This product has a shelf life of 12 months from the label printed date of manufacture. This information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Castle Chemicals assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of material. **Page 2 of 2**

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